

9/11/97

**pH in Smoke Study Plan
for Massachusetts Regulation**

METHOD

- Modified PRD
 - Time from smoke collection to pH measurement: 10 ± 2 minutes
 - DI water will be purged with helium to degas the water

CIGARETTES

- 1 Cigarette per run
- 4 replicates of each cigarette type

SMOKING MACHINE

- Filtronia Smoking machine

SMOKING CONDITIONS FOR EVALUATION

- 45 mL puff volume
- 30 sec. puff interval
- 2 sec. puff duration

LOCATION

- PTL Lab

PEOPLE

- PRD
 - Miles
- PTL
 - Charlene Callicutt
 - Technician

INITIAL STUDY

- Reference Cigs
- 3 ventilation levels
 - 0% blocked ventilation
 - 50% blocked ventilation
 - 100% blocked ventilation

REQUIRED STUDY

- Mass. Cigarettes
 - Marlboro
 - Basic - ?

TAPE FOR BLOCKING VENTILATION

- 0.5 inch (12.7mm) standard 3M tape

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TESTING SEQUENCE

- Calibration standards pH 4, 7, 10
- Calibration standard check pH 7
- Sample blank (cigarette puffed on smoking machine without being lit)
- IM 15/16
- Test samples (4)
- Calibration standard check pH 7

TIMELINE

- Obtain needed equipment: 9/12/97
 - pH meter
 - pH electrode
 - impinger glassware
 - computer
- Have written test plan and work instructions: 9/17/97
- Evaluate initial setup on reference cigarettes: 9/30/97
- Complete initial study as described above: 10/15/97
- Complete Massachusetts cigarettes: 11/26/97